

Title (en)

Dual contact set for chip card reader.

Title (de)

Zweifacher Kontaktsatz für Chipkartenleser.

Title (fr)

Double jeu de contacts pour lecteur de cartes à pieces.

Publication

**EP 0247368 A1 19871202 (EN)**

Application

**EP 87106109 A 19870428**

Priority

DE 3618091 A 19860530

Abstract (en)

This invention provides a dual contacting apparatus for a chip-card and a contact set therefor, for use with chip-cards on which the contacts are located at different locations. A flat cable (24) is arranged in a manner such that it provides for a series or parallel connection of the insulation displacement contacts of the contact elements of the contact set to contact one type of card and the contact elements are adapted to contact the other type of card.

IPC 1-7

**H01R 23/66**

IPC 8 full level

**G06K 7/00** (2006.01); **G06K 7/06** (2006.01); **H01R 12/59** (2011.01); **H01R 12/71** (2011.01); **H01R 12/73** (2011.01); **H01R 29/00** (2006.01); **H01R 12/67** (2011.01)

CPC (source: EP US)

**G06K 7/0021** (2013.01 - EP US); **H01R 12/59** (2013.01 - EP US); **H01R 12/714** (2013.01 - EP US); **H01R 12/73** (2013.01 - EP US); **H01R 12/675** (2013.01 - EP US)

Citation (search report)

- [A] EP 0167356 A2 19860108 - TOKYO TATSUNO KK [JP]
- [A] DE 2632776 A1 19770203 - THOMAS & BETTS CORP
- [A] DE 3442397 A1 19860522 - SIEMENS AG [DE]
- [A] PATENT ABSTRACTS OF JAPAN, vol. 10, no. 68 (P-437)[2125], 18th March 1986; & JP - A - 60 207 984 (TOKYO DENKI K.K.) 19-10-1985

Cited by

EP0880200A3; ES2119688A1; EP0893777A3; GB2327791A; US6102743A; GB2327791B; EP0893776A3; US6226189B1

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DOCDB simple family (publication)

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DOCDB simple family (application)

**DE 3618091 A 19860530**; EP 87106109 A 19870428; EP 93103872 A 19870428; JP 13190287 A 19870529; US 4817087 A 19870511